

**To:** Wall, Dan[wall.dan@epa.gov]; Auer, Steven[Auer.Steven@epa.gov]  
**Cc:** Schmittdiel, Paula[Schmittdiel.Paula@epa.gov]; Way, Steven[way.steven@epa.gov]  
**From:** Goodrich, Donald  
**Sent:** Wed 8/13/2014 4:08:45 PM  
**Subject:** RE: Mine discharges to determine Ferrous/Ferric proportions CORRECTION!

Looks like the upper range is only 7 mg/L. We may want to order two additional kits just in case dilutions and reruns will need to be done.

-dgg

Don Goodrich

US EPA Region 8

office: 303-312-6687

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**From:** Wall, Dan  
**Sent:** Wednesday, August 13, 2014 10:06 AM  
**To:** Auer, Steven  
**Cc:** Schmittdiel, Paula; Way, Steven; Goodrich, Donald  
**Subject:** RE: Mine discharges to determine Ferrous/Ferric proportions CORRECTION!

I misread. 1 kit does 100 samples so we only need 1.

**From:** Wall, Dan  
**Sent:** Wednesday, August 13, 2014 10:04 AM  
**To:** Auer, Steven  
**Cc:** Schmittdiel, Paula; Steven Way; Donald Goodrich  
**Subject:** FW: Mine discharges to determine Ferrous/Ferric proportions

Steve,

Please go ahead and purchase the necessary Hach kits to do this sampling. Don agreed to pick up the tab. It is my understanding that the kit will quantify ferrous iron in the field and then we get total Fe from the lab sample and calculate ferric by subtraction. It looks like Bill wants it on both the total and dissolved so looks like we need 10 kits plus a couple spares.

Don can you confirm that this is the kit we need? <http://www.hach.com/iron-ferrous-color-disc-test-kit-model-ir-18c-0-2-7-mg-l/product?id=7640217300>

Collaboration at its finest.

**From:** William Simon [<mailto:wsimon@frontier.net>]  
**Sent:** Tuesday, July 29, 2014 7:48 AM  
**To:** Wall, Dan  
**Subject:** Mine discharges to determine Ferrous/Ferric proportions

Dan, here are the mines I believe we should determine the proportions of Ferric and Ferrous ions to overall total and dissolved iron in the discharge at the portal.

CC02D – Mogul Mine

CC02E – Gold Point Mine

CC03C – Red & Bonito Mine

CC06 – Gold King 7 level

CC19 – American Tunnel

Let me know if you have any questions or concerns in getting this task accomplished.

Thanks, Bill

